White Leghorn Fowls. The eggs that command an extra price are those of the White Leghorn hens. These chickens are becoming extremely popular. They can fly farther and higher than the heavy Asiatic breeds, but this difficulty is easily got over by clipping a wing in each fowl as the birds become grown. The White Leghorus are the most noted layers, while the Cochins and Brahmas are the largest fowls for table purposes. The Leghorus are especially prolific winter layers. A good hen of this breed averages 150 eggs a year and upward. The average is not so good as that of the speckled hen in the rhyme that laid two eggs each day, and Sundays she laid three, but for a hen out of poetry it is a firstclass record.



These birds have pure white feathers and vellow legs and beak. They have white ear lobes and rose combs, and are very handsome in form. The Brown Leghorus are not so beautiful as the White, but they, too, are first-class layers, and their dark plumage enables them to escape the clutches of the hawk, in districts where that bird of prey is not yet extinct.

A Combination Mill and Horse Power. The modern principle of combination and co-operation is well illustrated in the accompanying picture. It shows primarily a mill for grinding feed. But in addition to this there is a power attached to the mill which, by means of belting, will run other machinery



The illustration shows an ordinary twohorse farm mill, grinding feed. But attached to it is a long iron shaft which is turned by cog wheels, which change the direction of the motion. At the end of it a belt passes over it wheel, crosses, and turns the large wheel of a corn sheller. The picture shows the combicorn. The horses walk around the track stepping over the shaft, which revolves so as to just clear the ground. Besides shelling corn, the power may be used for cutting fodder, sawing wood, etc. It is also arranged that the mill may be used without the additional horse power.

Cheap Barn Lock.

The lock proper is an ordinary sliding wooden boit, fixed on the bodde of the door. A hole, half an inch in diameter, is bored through the door two inches above the bolt. The key, shown at Fig. 1, is a piece of ordinary three-eighth meh iron, with a



When the key is pushed through the hole, the shorter part falls into the position shown at Fig. 2, between two projections on the holt, so that when the key is turned the bolt is pushed into place. This lock is cheap, and will be hard to pick.

Cure of Foot Rot in Sheep.

Make a rack to hold your sheep something similar to the old-fashioned saw horse used for sawing wood, only large enough so that after putting some boards in it will be large enough to lay a sheep in on its back. Then neil a strap on one side, near the middle, so it will pass over the sheep's body just back of the front legs; then, with a hook or some other device on the other side to hold the other end of the strap, you have something that will hold a sheep much easier and better than a man can possibly do it. Then steep or thoroughly dissolve blue vitriol in soft water, put in a bottle, have a quill in the cork like a pepper sauce bottle. Pare off all loose hoof and clean out as far as possible all decayed matter from all sors feet, and apply the vitriol to every foot in the flock, sore or not. Keep your pens dry and well littered. By going over your flocks twice a week on the start, (as the disease abates) once a week will cured in the spring, before being turned out to pasture, and I will guarantee they will Michigan Farmer.

How to Plant Asparagus.

We have given heretofore directions for making an asparagus bed. A contributor to The Michigan Farmer has improved on the old-fashioned shape. The disadvantages of that shape, and how he obviated them, he sets forth as follows:

The square form of the last necessitated valking on it to cut the product, and many of the tender shoots were trampled on and spoiled. The stalks grew four to six feet high in the late summer months, bent over, and | will lay another setting of eggs. excluded sun and air from the inside rows, so that the outside rows gave much stronger and richer shoots. I dug out the two-central rows, and threw the surface soil of the threefeet space upon the two four-rowed beds, and the central plants at once improved in productiveness and quality. Pound the depressed walk between the bods gave much greater case in cutting, and have since thrown soil up

from all around the beds. Finding these first bods very profitable, I have made an extension to them on a plan which in my judgment is an improvement. The ground is dug one spade and one digging fork deep (about eighteen inches), a large amount of manure mixed in, and the consest at the bottom. So much manure is used that, with the loosening of the subsoil, it makes the beds six to eight inches above their former

In planting, a line is stretched lengthwise of lose on any given crop.

the bed and a foot from its side. A spade is thrust down its full length, with its back to the line, and every two feet in distance on the line. The spade is pushed backwards and forwards (the blade in the ground) until a deep space is opened to receive the plant. Dividing the roots of the plant fan-shaped with both hands, thrust them down so that the crown will be three or four inches below the surface. There is no danger of getting them too deep, unless in very heavy soil. Tramp the ground firmly on both sides of the plant. After completing this row plant the other outside row, three feet or more from the first, and so that the plants will be exactly opposite to those in the first row. In the two inside rows place the plants opposite the twofoot spaces of the outside rows, thus:

. The advantage of this arrangement is that

it gives sun and air to the inside rows. A well-made asparagus bed will last a life time, with only the yearly attention of cutting the crop carefully in the spring, keeping free from weeds during the summer, and manuring heavily after cutting the stalks in the fall. It pays, therefore, to do the work thoroughly at first, and to put the beds in shape to be easily taken care of.

Russian Apples for the Great Northwest. Professor J. L. Budd, of the Iowa Agricultural college, has been experimenting for a number of years on fruits, in order to find what varieties would be quite hardy and profitable in the northwest. He himself went to Russia and investigated the subject, with the aid of an interpreter. The information he brought back will be of great value to farmers in the mightiest agricultural section of this country. Some of the apples which have absolutely been tried and found to stand the severast test of cold winters are the follow-

ing, with description: Ostrokoffs Glass-A fine upright grower and a true ironclad. Fruit medium to large, slightly oblong, greenish yellow with raised dots on the surface, which may be felt with the finger. Stem long, lipped, inserted in narrow cavity. Basin shallow, plaited, eye large. Quality better than Willow. Season here, midwinter. Will prove hardy enough to grow north, where it will keep until May. Royal Table-Another fine hardy tree. Fruit medium in size, roundish conical. Color greenish yellow, covered with broken stripes of red, with sprinkling of white dots, cavity deep, narrow, stem short, clubbed. Basin shallow, narrow and wrinkled. In many specimens a marked show of ribbing. Quality very good. Season here, early winter. Will have its greatest value north of the forty-third parallel.

Blushed Calville-This tree is hardy on the Sparrow hills or bluffs near Moscow, and is justly much prized. Medium, often large, onical, yellow, with a beautiful blush on one ide, like that of Maiden Blush. Season here, middle of August, and it is surely the best apple for desort use of its season that we

English Borovinka-Alarge vellowish white apple, with a Rhode Island Greening look; much russet in cavity, stem lipped. The quality we were not able to test as specimens were taken. A fine winter apple south of Moscow, and it seems late here. The name English" has some relation to an English settler, as with English Pippin.

Vargalek-Medium in size, slightly oblate, ellowish green ground, covered with broken tripes; stem-short, in narrow, deep cavity, Basin slightly wrinkled, eye recurved. Quality very good. Season, early winter here and

He gives description and indorsement of

nine more varieties with as positive words.

To Prevent Smul in Seed Wheat, The Northwestern milroad has issued: through General Freight Agent McCullough, n little pamphlet of great interest to farmers, dealing with the question of smut in wheat, which has caused lasses of thousands of dollars. Hitherto the smut was confined to the soft varieties of spring wheat, but it is now making its appearance in the Dakota or Phyfe wheat. It is stated that the smut can be stamped out by using a solution of blue vitriol, commonly known as bluestone. From one to two pounds of the vitriol are to be dissolved in a gallon of water. The seed wheat is placed in coarse bags holding from fifty to sixty pounds, tiet loosely and placed in the pickle from five to ten minutes, turned over often enough to allow every grain to be theroughly soaked, and then lifted out and allowed to dry. It is stated that this treatment will infallibly dispose of smut and cause the wheat to grade much higher. Six pounds of vitriol will be sufficient for a ton of seed wheat.

Minnespells as a Wheat and Floor Market. The record of the milling year at Minneapolis shows a large increase over the business of the preceding year. During the year the total flour product was 5,450,163 harrels, as against 4,797,040 in 1887-4, an increase of 652, 823. The shipments were 5,298,541 barrels against 4,814,424 for the year previous. The xports were 1,989,552, an increase of, 257,552 over 1883 and 1884. As regards wheat Minneapolis carries the honor of being the largest primary wheat market in the United States, exceeding Chicago by no less than 11,000,000. bushels in the amount received during the past year. The total number of bushels received during the past your was 32,112,810, against 23,514,576 the year previous. Shipmonts were 5,584,300, against 3,132,740 in 1883.

The Mexican Land and Ranch company has been formed in England, with a capital of \$1,500,000, to secure an estate known as the Sasramento ranch, comprising 230,000 acres ranch is situated on the River Solo Lado until it is entirely cured. Have them Marina, and is within forty-live miles of the gulf. An American firm has just concluded a lease of 100,000 acres on the Mexican side stay so; at least, such is my experience,- of the Rio Grande, opposite its own runch on the American side. The land supply of Mexico scens to be regarded as unlimited.

With a large bronze turkey cock and six funkey here to start within March, there is a pretty clear certainty of a flock of turkey which next Christmas will add largely to the family finances. The turkey hens should be required to lay two settings each of eggs before they set. The first laving should be set under common hors. The turkeys can be soon broken from frying to set, when they

Things to Do and to Know. All the profit in farming comes from crop-

have the average yield. If March comes in like a lien, he will go out like a lamb, says the old saw. The first part of the saying certainly came true this

Washing the trunks of fruit trees prevents them from becoming hide bound. Such a condition in trees is often started by poverty

or unsuitable soil. Now when you are beginning the spring of the year, start in and note the cost of every erop you raise. Set down labor, seed, manure, implements, time occupied in raising the erop, and all the other items of expense, including keep of hands employed. By that means you will know whether you gain or THE MEALS OF THE DAY.

BREAKFAST SHOULD BE HEARTY AND EATEN QUITE EARLY.

The Views of an English Physician-The Stimulus of a Cup of Tea-Cheerful Conversation at Meal-Time-The Midday Lunch-Dining Out.

The first meal of the day, or breakfast, is in this country-with those in health at all events a fairly substantial one, although some people try-but, thank goodness, try in vain-to assimilate French and English customs in regard to breakfast. France and its folks are different from England, and with its solid men and women. Its climate is different from ours; its notions as regards eating and drinking can never be engrafted on English bone and muscle.

Yes, breakfast ought to be a hearty one, eaten early in the morning, and eaten slowly, so as to preclude the possibility of eating too heavily, which would materially interfere with the business of the day.

A man or woman who is no breakfast eater must either be a heavy-over heavysupper eater, or be in a bad state of health. A person who requires the stimulus of a cup of tea, or any other stimulus or stimulant whatever, before partaking of solid food is not in the heyday of health. I like to see man have his breakfast first, and then feel round for his cup of coffee, tea or chocolate. I have known the strongest and healthiest of men positively forget all about the liquid part of their breakfast. and leave the table without it. I have known men who scarcely ever touched a drop of liquid of any kind from one week's end to another, and who, nevertheless, were in ruddy and robust health. WHAT TO EAT FOR BREAKFAST.

What a person eats for breakfast often gives me a clew to the state of his health. One example: If, white sojourning at a hotel, I see a man come down to breakfast between 10 and 11 and sit down to deviled kidneys with plenty of sauce (piquant), and perhaps one poor puny egg to follow, I would be willing to aver that he carries a white tongue, and that his liver sadly needs seeing to.

Ham and eggs, bacon and eggs or a beefsensible breakfast for a man who is going away out in the fresh air to walk or ride manual labor. I emphasize the word They hope that Greece will yet get the manual because intellectual or mental work conduces to appetite. An author hard at his desk, if his ideas be flowing freely, if he be happy at his work, and cheek by jowl, as the only way to save support the body well when there is a effectually cowed. strain upon the mind, so that no extra extra expenditure of tissue may lead to de-

Cheerful conversation insures the easy

LUNCHEGN-A "SNACK" - DYSPEPSIA.

free with them. have felt, that even a moderately heavy troit Free Press. meal is unickly and easily digested, if ac companied with and followed by witty or intellectual and suggestive conversation.

remark.

Well, my impression is that it does dys can eat in moderation and fudiciously artificial stimulus to enable them to do as men of more robust physique are doing around them. - Cassell's Family Magazine.

Not Entirely a New Idea.

Illustrated daily journalism is not an en tirely new idea, although not until recently have the daily papers resorted to illustrating current events. Theodore R. Davis, the war artist, told me recently that in the time of the elder Bennett he was summoned one evening to the resi dence of the founder of The New York known to harm any person. An inciden Herald, and the matter of illustrating for was narrated in which a pig was killed The Herald fully discussed. There were by a hechalf. The ball was seen rolling limitations and obstacles in the way of slowly over the surface of the ground, at rapid engraving which have since been a pig going up to it rented if over with h overcome, but which then prevented Mr. | nose, and, "it was bad for the pig "-Cin Bennett from carrying but his design -Pioneer Press "Listener."

Technical Education in Europe. have taken additional steps to further the jenstom, but it is now included in wit cause of technical education. The pro- unusual interest. The swappers assemb gramme to be pursued is preserved as a on the Martin metitate hillside, with the creasing the number of their schools and enlarging their scope.-Philadelphia Rec

The Secret of Earthly Happiness. Mr. Joseph Arch, having had the cool luck to be elected member of parliament, \$15 differences - Athens 17 a Banner. announces his intention of pushing his energies in the direction of free land for the English peasants. The possession of a small freehold," he said recently, "has been the secret of all my earthly happiness."-Boston Budget:

Benefits of Chat and Good-Fellowship. without observing the laws of exercise and sleep, will digest an enormous dinner two hours' chat and good fellowship after-

One of Thomas Carlyle's Words. The word environment, now so popular, was introduced into our language by Thomas Carlyle, who borrowed it from the French, they having used it for two centuries. Boston Budget.

Lives to a Good Old Age.

onseviev.

A LEGEND-FROM THE GERMAN.

I know a legend. Once a wanderer came From forest aisles, where bell-tones filled the air. He held a magic flower without a name, And dreamily entwined it in his hair,

Then among care-worn men he passed unknown; gazed upon him with dislike and dread;

The world a hundred years had older grown-

None knew the wandering youth with flower-crowned head.

Thou, my beloved, art my magic flower; And I am captive to enchanting dreams. Banished are earthly thoughts by thy strange power,

A hundred years has passed away, it seems. I am a stranger grown. A weary sigh Sweeps through the sad world where I

In spring like garb. Youthful alone am I; All else is old, and sere, and dead at heart

So I return, with thee for aye to dwell, A happy settler in the forest ground. Forgotten I would be. For me the well Of life and love has balm for every wound.

roam apart,

Your blue eyes softly beam through happy tears, Your kisses drive all pain and care

away, I would that thus might pass a thousand years, Back to the toilsome world I'd never stray.

NEW KIND OF MARKET REPORT.

-Northwest Magazine.

The Commercial Outlook from the Newspaper Humorist's Point of View.

Breadstuffs are somewhat unsettled-at least that is the case with some of the "wildest of the recent ventures. Bears are at the favorable turn in affairs. Holders are less mealy mouthed, and affect to believe that their condition, will are less than their condition will are less than their condition. nclined to pause, being no little amazed lieve that their condition will ere long be ameliorated, and that a very large share steak or underdone chop, with boiled eggs of the remaining stocks will be kneaded to follow, and then a cup of nice tea, is a for domestic consumption. Operators in provisions have been viewing the eastern question with much interest, hopfing for or work till noon, but not for a person who the establishment of a provisional governhas to sit all day in the same position at ment as a method of curing existing evils bulge on the Bulgarians, or at least find some means of Balkan them, while others feel sure that all parties will soon be time flying swiftly with him, soon gets their bacon. In this unsettled state of hungry, which only proves that we must things operators in live stock are pretty

No data have been rendered concerning the late heavy transactions in lard. Operators in butter are disgusted with their meager returns, and sigh for the times of digestion of a good breakfast. It is a pity the ole margeria. Consumers are doing that in this country the custom of inviting better, and regard this as the cream of the friends to the maintimal meal is not more joke. Whisky continues to have its ups prevalent. It may seem a strange thing and downs and the laying in of family east of Court House. to say, but I would fen times sooner go out supplies is attended by marked irregular to say, but I would fen times sooner go out to breakfast than to dinner. One is, or ties. Dealers in futures in tropical fruits C. B. CHAPALAN, Anomey and Counsels to breakfast than to dinner. One is, or ought to be, freshest in the morning he have been badly squeezed by the recen then needs no artificial stimulus to make remarkable demonstrations of the mer him feel bright, witty, happy, as he too cury. There are said to have been syrup often does after the duties of the day are titious movements discovered in melasses operation, and the feeling is somewhat

strained. The mid-day meal or luncheon to those | Holders of cannel goods are exceedingly who dine in the evening and who have anxious to unload, but while a few can work to do in the aftermoon should be a accountlish this, by far the greater share light one. I am not quite sure that I do can not. Drugs are slow. It has been not approve of the city "snack." It puts found impossible to produce any very acone past; it sustains nature; it leaves the tive movement in opium, and there are no mind free to think and to do its buty, and | willing holders of large quantities of casabove all, it enables the stomach to have for oil. Measures are being constantly a rest before the principal meal of the day. taken to promote activity in dry goods. Now, about this meal; I have to say Long ticking is not in favor. Very gay Now, about this meal; I have to say Long ticking is not in favor. Very gray that, if partaken of alone by one's self, it ladies continue to prefer fast colors, deal-ought to be an absternious one. Even in ers in shirts seem to make a shift to avert likek, Onawa, iii.

T. C. TRE: NARY, Afformer at law Office ought to be an absternious one. Even in ers in shirts seem to make a shift to avert likek, Onawa, iii. company it need not be a heavy one. No loss. Holders of iron have considerable matter how many courses there are, there mettle, and some of them are rather pigis not the slightest necessity of making too headed. Lumber is quiet, and some few operators have to resort to no little log-But it is a fact, which every one must rolling to enable them to plank up. De

Facts Concerning Atmospheric Electricity. There are three forms of atmospheric "I'm a dyspeptic, I must not dine out," I clectricity, viz. Autoras, St. Elmo's fire have heard a gentleman more than once and lightning. St. Elmo's fire is oftenest Court House, Ottaws, II.

B. F. LINCOLN, Attorney at Law, Ottawa have beard a gentleman more than once and lightning. St. Elmo's fire is oftenest. seen at sea, playing about the masts of vessels. It appears about points, some pepties a deal of good to discout, if they times flaming up two feet high. Auroras are always accompanied by magnetic never being tempted to call in the aid of storms, showing that they probably depend upon disturbances of the electricity or the atmosphere.

Lightning appears to three forms, sheet zig-zag and globular. The two former are very common and known to all. The latter is rarely seen, and its existence has seen it. But the evidence of its occasional appearance is too strong to be cast aside An instance was cited in which a bail of It moves slowly and has never been

Horse Trading Down in Georgia. Several of the governments of Europe at Jackson court. This is a time-honore secret, as each nation desires to exhabish blooded and scrub stock most of the ligthe most perfect and thorough system (ter), prance up and down and across Technical schools have been started in the grounds, finally slopping und nearly all of the large cities of Great Brit the shade of a tree or in some tence co-ain. France, Austria and Turkey are in ner, enchange saddles and bridles an seven times in one day. He was ridit morning, and had put out disting the day

Cave Dwellings Found in Saxony. Inhabited cave usedlings are found in the Bulkan perinsula, and also in such a entitivated place as savony. They are in the neighborhood of Halberstadt, quite close to the village of Langetstein. Here in a sandstone hill about a dozen caves Dio Lewis says that an Englishman, have been dug win hare used as dwell ings. They have different rooms, light and dark, as well as chimneys, windows and preserve his stomach because of his and doors, and are said to be very dry and habitable. The writer of the account, a physician, says he found the inhabitants quite comfortable, and that some of them had lived there for more than there years without suffering from any evil effect to their health. - Chicago Herald.

Side by Side with English Rails.

The Chicago Steel-rail mill is making 10,000 tons of rails to be half-side by side with English bammered rails as a test of with English bammered rails as a test of partial the experiment will last a conclusive one of the experiment will be experiment. Ornithologists claim that wild goese live superiority. The experiment will last a to the age of (5) years. Another evidence long time, but it will be a conclusive one hat out door exercise is our incive to when results are announced. Philadel-

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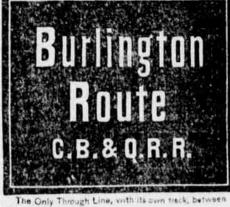
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